

PMRA Approved Label
2018-1126
2018-08-29

[PRINCIPAL DISPLAY PANEL]

GROUP	2 4	HERBICIDE
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DB-878 HERBICIDE

FOR USE IN THE PRAIRIE PROVINCES AND THE INTERIOR OF BRITISH COLUMBIA PRIOR TO SEEDING WHEAT (SRING, DURUM AND WINTER), SPRING BARLEY AND OATS, AND FOR CHEMFALLOW AND POST HARVEST APPLICATIONS

WETTABLE GRANULES

COMMERCIAL

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

REGISTRATION NO.: 32955 PEST CONTROL PRODUCTS ACT

Warning: contains the allergens milk and sulfites

ACTIVE INGREDIENT: Dicamba, present as sodium salt 60.87% a.e.
Tribenuron Methyl 6.52%



POISON

WARNING – EYE IRRITANT
POTENTIAL SKIN SENSITIZER

NET CONTENTS: 115 g – bulk

FMC Corporation
2929 Walnut Street
Philadelphia PA 19104
United States
1-833-362-7722

PRECAUTIONS: WARNING - EYE IRRITANT.
POTENTIAL SKIN SENSITIZER.
DO NOT APPLY BY AIR.
KEEP OUT OF REACH OF CHILDREN.
MAY BE HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN.
AVOID BREATHING SPRAY MIST. USE WITH ADEQUATE VENTILATION.
CAUSES EYE IRRITATION. DO NOT GET IN EYES. AVOID CONTACT WITH SKIN AND CLOTHING.
DO NOT CONTAMINATE ANY BODY OF WATER.
WEAR LONG-SLEEVED SHIRT, LONG PANTS, SOCKS AND CHEMICAL RESISTANT GLOVES AND FOOTWEAR DURING MIXING AND LOADING, APPLICATION, CLEAN-UP AND REPAIR. IN ADDITION, WEAR GOGGLES OR FACE SHIELD DURING MIXING AND LOADING.
WHEN USING, DO NOT EAT, DRINK OR SMOKE.
WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING.
REMOVE CONTAMINATED CLOTHING IMMEDIATELY AFTER USE.
DO NOT ENTER OR ALLOW WORKER ENTRY INTO TREATED AREAS FOR 12 HOURS FOLLOWING APPLICATION.

FIRST AID:

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

IF SWALLOWED: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

IN CASE OF A MEDICAL EMERGENCY, CALL TOLL FREE, DAY OR NIGHT: 1-800-331-3148

TOXICOLOGICAL INFORMATION: Dicamba may cause severe irritation to the eyes, and irritation to the skin, and mucous membranes. Symptoms of overexposure to dicamba may include dizziness, muscle weakness, loss of appetite, weight loss, vomiting, decreased heart rate, shortness of breath, excitement, tenseness, depression, incontinence, cyanosis, muscle spasms, exhaustion, loss of voice. Treat

symptomatically.

STORAGE AND DISPOSAL

STORAGE:

Store product in original container in a secure, dry area, away from fertilizer, seed, food or feed. Not for use or storage in or around the home. Keep container tightly closed.

DISPOSAL:

For recyclable containers:

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/ dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

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If this is a refillable container:

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For all package types:

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean up of spills.

NOTICE TO USER

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

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[Directions for Use brochure]

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IMPORTANT INFORMATION - READ BEFORE USING

Injury to or loss of desirable trees, shrubs, flowers, vegetables, fruits or other vegetation may result from failure to observe the following: Do not apply, drain or flush equipment on or near desirable trees or other plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots. Do not use on lawns, walks, driveways, tennis courts, or similar areas. Prevent drift of spray to desirable plants. Do not contaminate any body of water, including irrigation water that may be used on crops.

DO NOT APPLY BY AIR.

Do not apply in high winds.

Carefully observe sprayer clean-up instructions, as spray tank residue may damage crops other than wheat, barley or oats.

DO NOT APPLY DB-878 HERBICIDE WITH A CARRIER OTHER THAN WATER OR ANY ADDITIVE OTHER THAN THOSE INDICATED ON THIS LABEL. Other carriers may accelerate breakdown of this product and reduce its effectiveness.

ENVIRONMENTAL HAZARDS:

- TOXIC to aquatic organisms and non-target terrestrial plants.
- Observe buffer zones specified under DIRECTIONS FOR USE.

Surface Runoff:

- To reduce runoff from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include but are not limited to heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (e.g. soils that are compacted, fine textured or low in organic matter such as clay).
- Potential for contamination of aquatic areas as a result of runoff may be reduced by including an untreated vegetative strip between the treated area and the edge of the water body.
- Avoid applying this product when heavy rain is forecast.

Leaching:

- The use of this chemical may result in contamination of groundwater, particularly in areas where soils are permeable (e.g. sand, loamy sand and sandy loam soils) and/or the depth to the water table is shallow.

APPLICATION INFORMATION:

APPLICATION PRECAUTIONS:

- DO NOT APPLY BY AIR.
- Do not apply to irrigated land where tail water will be used to irrigate cropland.
- DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

- DO NOT apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marches, streams, reservoirs and wetlands), estuarine or marine habitats.
- Overspray or drift to important wildlife habitats such as shelterbelts, wetlands, sloughs or dry slough borders and woodlots should be avoided.
- Apply DB-878 Herbicide when air temperature is between 10 and 25°C. Do not apply when there is a risk of severe drop in night temperature.
- Do not treat areas where soil penetration or surface washing may bring DB-878 Herbicide into contact with roots of desirable plants.
- Do not remove soil from treated fields for use on lawns, in gardens or for backfill.
- Control of weeds growing in wheel tracks may be reduced if DB-878 Herbicide is applied under dry, dusty conditions.
- Do not apply more than 115 grams/hectare of DB-878 Herbicide per year.
- Apply only when the potential for drift to areas of human habitation or areas of human activity is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

When using one of the herbicides containing the active ingredient tribenuron-methyl, follow the instructions on the label and restrict the total use of the active ingredient tribenuron-methyl to 15 grams per hectare per year.

SPRAY DRIFT PRECAUTIONS

DB-878 Herbicide may cause injury to desirable trees and plants, particularly flowers, fruit trees, grapes, ornamentals, peas, potatoes, tomatoes, and other broadleaf plants, especially in their developmental and growing stage. Follow these precautions when spraying in the vicinity of sensitive crops:

1. Avoid spraying when winds are towards sensitive crops. Leave an adequate buffer zone between treatment areas and sensitive plants.
2. Use coarse sprays since they are less likely to drift than fine sprays. Select nozzles which minimize amounts of fine spray particles. Keep spray pressure below 150 kPa and the spray volume above 220 L/ha unless otherwise required by the nozzle manufacturer.
3. Do not spray when the temperature is expected to exceed 30°C.
4. Avoid spraying under conditions of high humidity or fog.

Field Sprayer Application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply with spray droplets smaller than the American Society of Agriculture Engineers (ASAE) coarse classification. Boom height must be 60 cm or less above the crop of ground.

GENERAL INFORMATION

DB-878 Herbicide provides control of certain broad-leaved weeds in fields to be planted to wheat (spring, durum and winter), spring barley, oats and in chemfallow and post-harvest treatments. DB-878 It is non-corrosive, non-flammable and does not freeze. Should product be exposed to freezing temperatures, warm to room temperature prior to use.

Warm, moist growing conditions promote active weed growth and enhance the activity of DB-878 Herbicide by allowing maximum foliar uptake and contact activity. Weeds hardened off by environmental stress such as cold weather, drought stress or excessive heat may not be adequately controlled or

suppressed, and regrowth may occur. DB-878 Herbicide may only be applied using ground spray equipment. For best results, ensure thorough spray coverage of target weeds.

DB-878 Herbicide rapidly stops growth of susceptible weeds. However, typical symptoms (discoloration) of dying weeds may not be noticeable for 1 to 3 weeks after application, depending on growing conditions and weed susceptibility. Degree of control and duration of effect depend on weed sensitivity, weed size, spray coverage and growing conditions. Activity of the herbicide mixture may be delayed by cold, dry conditions after application.

DIRECTIONS FOR USE:

BUFFER ZONES

Spot treatments using hand-held equipment DO NOT require a buffer zone.

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelterbelts, woodlots, hedgerows, riparian areas and shrub lands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats).

Method of Application	Crop	Buffer zones (metres) required for the protection of:		
		Freshwater habitat of depths:		Terrestrial Habitat
		Less than 1 m	Greater than 1 m	
Field Sprayer	Pre-seed to cereals, chemfallow. post-harvest	1	1	5

For tank mixes, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.

The buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Buffer Zone Calculator on the Pest Management Regulatory Agency web site.

RECROPPING INTERVALS:

Fields treated with DB-878 Herbicide may be seeded to wheat (spring, durum or winter), spring barley or oats a minimum of 24 hours after application.

Fields treated with a chemfallow application of DB-878 Herbicide can be seeded to any crop the following season.

Fields treated with a post-harvest application of DB-878 Herbicide in the fall may be seeded in spring to canola, corn, oats, spring barley, soybeans, wheat (spring or durum) or white beans.

CONTROL OF BROADLEAF WEEDS AND GRASSES PRE-SEED TO WHEAT (SPRING, DURUM AND WINTER), SPRING BARLEY AND OATS, AND IN CHEMFALLOW AND POST-HARVEST TREATMENTS

With any chemfallow or post-harvest treatment, allow at least 10 days to elapse between treatment and tillage. Only weeds emerged at time of application will be controlled.

Fields treated with DB-878 Herbicide can be seeded to wheat (spring, durum and winter), spring barley or oats a minimum of 24 hours after application. Only weeds emerged at time of application will be controlled.

Apply DB-878 Herbicide at 115 grams per hectare tank mixed with glyphosate (present as potassium salt, isopropylamine salt, or ammonium salt) and adjuvant (where required) in a total spray volume of 55-110 L/ha.

When applied as a tank-mix combination, read and observe all label directions, including rates, personal protective equipment, restrictions and precautions for each product used in the tank-mix. Always use in accordance with the most restrictive label restrictions and precautions.

Tank mixes not requiring surfactant:

Companion Herbicide	Application Rate (grams acid equivalent per hectare)	Application Stage	Weeds Controlled	Weeds Suppressed ¹
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glyphosate (present as potassium salt, isopropylamine salt, or ammonium salt)	450 g ae/ha	Up to 8 cm	Canada fleabane, common ragweed, kochia (including Group 2 and Group 9 resistant biotypes), narrow leaved hawk's beard	Scentless chamomile
		Up to 15 cm	Dandelion, downy brome, flixweed, giant foxtail, green foxtail, hemp nettle, lady's thumb, lamb's-quarters, Persian dandelion, redroot pigweed, Russian thistle, stinkweed, volunteer barley, volunteer canola (including glyphosate-tolerant varieties), volunteer flax, volunteer wheat, wild mustard, wild oats	
		Up to 3-leaf	Cow cockle,	
		Up to 8-leaf	wild buckwheat	
		Rosette		

Tank mixes requiring surfactant:

glyphosate (present as potassium salt, isopropylamine salt, or ammonium salt) plus Agral* 90	270 g ae/ha 0.35% v/v	Any stage	Volunteer canola (including glyphosate tolerant)	Narrow-leaved hawk's beard
		Seedlings and rosettes		
		Up to 8 cm	Green foxtail, kochia (including Group 2 and Group 9 resistant biotypes), lady's thumb, stinkweed, volunteer barley, volunteer wheat, wild buckwheat (1-3 leaf), wild mustard, wild oats (1-3- leaf)	
		Up to 10 cm	Lamb's-quarters	Redroot pigweed, Russian thistle
glyphosate (present as potassium salt, isopropylamine salt, or	360 g ae/ha	Rosettes (non-flowering)	Dandelion (top growth)	Canada thistle (top growth)

ammonium salt)				
plus Agral* 90	0.35 % v/v			

¹ Weed suppression is a visual reduction in weed competition (reduced population or vigour) as compared to an untreated area. Degree of suppression will vary with size of weed and environmental conditions prior to and following treatment.

Consult the labels of the glyphosate product to be used as tankmix partners with DB-878 Herbicide for specific instructions of "Directions for Use" and restrictions.

NOTE:

If rain occurs soon after application control may be reduced. Environmental conditions that slow the drying of the spray mixture on the foliage such as high relative humidity, cool air temperatures or cloud cover, may increase the time required.

In some cases, tank mixing a pest control product with another pest control product or a fertilizer can result in biological effects that could include, but are not limited to: reduced pest efficacy or increased host crop injury. The user should contact FMC Corporation at 1-833-362-7722 for information before mixing any pesticide or fertilizer that is not specifically recommended on this label. The user assumes the risk of losses that result from the use of tank mixes that do not appear on this label or that are not specifically recommended by FMC Corporation.

MIXING INFORMATION:

MIXING PRECAUTIONS: Do not allow the spray mixture to remain in the tank for more than 24 hours before spraying or the effectiveness may be reduced. If the spray mixture has been allowed to stand in the tank, use vigorous agitation to thoroughly disperse before resuming spraying.

MIXING DIRECTIONS: Select a spray volume that will ensure thorough coverage and a uniform spray pattern. Use a minimum of 55 L of spray volume per hectare. If tank mixing with other herbicides, always consult the label of the tank mix partner(s) for minimum spray volume requirements and apply the tank mixture using a water volume recommended for all products.

1. Always start with a clean and empty sprayer tank equipped with 50 mesh screens or filters.
2. Fill the tank to 1/4 to 1/3 full of **clean** water.
3. With the agitator running, add the required amount of DB-878 Herbicide. Continue to agitate for a minimum of 5 minutes to ensure that DB-878 Herbicide is **completely** dissolved. Ensure agitation reaches all parts of the tank.
4. After 5 minutes of agitation, finish filling the tank with water, then add the required amount of glyphosate (present as potassium salt, isopropylamine salt, or ammonium salt) while maintaining agitation.
5. Once components are completely mixed, if required, add Agral* 90 at 3.5 L per 1000 L of

spray solution (0.35% v/v). If an antifoam agent is required, add last.

6. For repeat tank loads, reduce the material remaining in the tank to 10% of the original volume **or less** before proceeding with step 1, because remaining chemicals may prevent DB-878 Herbicide granules from completely dissolving or dispersing. If this is not possible, pre-slurry DB-878 Herbicide in a minimum of 10 L of water before going to Step 2. Dissolving may take longer in low water volumes.

SPECIAL MIXING INSTRUCTIONS FOR CHEMICAL HANDLERS

1. Ensure the chemical handler is clean (rinsed with ammonia).
2. For best results, add DB-878 Herbicide to the top of the sprayer tank.
3. If a chemical handler is used, make sure that all the granules of DB-878 Herbicide are completely dissolved/dispersed and injected into the main tank with agitation before adding other chemicals.
4. Low water volumes in some chemical handlers can cause the water to become saturated with DB-878 Herbicide, leaving undissolved granules. In that case, rinse the chemical handler with clean water before adding any other chemical.
5. Always dissolve the DB-878 Herbicide granules with agitation in the main tank before adding a tank mix partner.

NOTE: Follow the clean-out procedure recommended for sprayer tanks for the chemical handler.

EQUIPMENT-SPRAY VOLUMES

Apply the spray mixture uniformly with properly calibrated ground equipment only. Ensure thorough coverage and a uniform spray pattern. Flat fan nozzles are recommended (minimum 55 litres spray volume per hectare). Use 50 mesh filter screens or larger (metal or nylon).

Apply uniformly and avoid overlapping. Shut off spray boom while starting, turning, slowing or stopping to prevent crop injury from over application.

Reduce drift with high water volume, low pressure, coarse sprays and drop nozzles. Do not apply with more than 275 kPa spray pressure.

DO NOT APPLY BY AIR.

SPRAYER CLEANUP

EQUIPMENT CLEANING INFORMATION:

CLEANING PRECAUTIONS:

CAUTION: Do not use ammonia with chlorine bleach. Using ammonia with chlorine bleach will release a gas with a musty chlorine odour, which may cause eye, nose, throat, and lung irritation. Do not clean equipment

in an enclosed area.

CLEANING INSTRUCTIONS:

DO NOT CLEAN SPRAYER NEAR WELL OR WATER SOURCE OR NEAR TO DESIRABLE VEGETATION. To avoid subsequent injury to crops other than registered cereals, immediately after spraying and prior to spraying other crops, thoroughly remove all traces of DB-878 Herbicide from mixing and spray equipment as follows:

1. Drain tank and then fill tank half-full with clean water. Flush tank, boom and hoses by operating the sprayer until the system is purged of the rinse water. If boom is equipped with multiple nozzle bodies, be sure to rotate through all nozzles to ensure clean water reaches all parts of these assemblies.
2. Visually inspect tank to ensure removal of all visible herbicide residues. If necessary, repeat Step 1.
3. Fill the tank with clean water, and then add 1 litre household AMMONIA (containing minimum of 3% ammonia) or equivalent amount of a sprayer tank cleaner containing ammonia, per 100 litres of water. Ammonia will not neutralize the herbicide, but helps dissolve dried-on herbicide deposits. If an emulsifiable concentrate has been tank mixed with DB-878 Herbicide, use of a wetting agent in the cleaning process will assist in removing oily residue that may trap DB-878 Herbicide on the tank and hoses.
4. Flush solution through boom and hoses, and then add more water to completely fill tank. Allow to sit for 15 minutes with agitation.
5. Drain the tank.
6. Remove the nozzles and screens and clean separately in a bucket containing cleaning agent and water.
7. Flush the sprayer with two tanks full of clean water, flushing water through the hoses and boom.

Consult the tank mix partner labels for any additional sprayer cleaning instructions specific to the tankmix partner.

RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, DB-878 Herbicide is a Group 2 and Group 4 herbicide. Any weed population may contain or develop plants naturally resistant to DB-878 Herbicide and other Group 2 or Group 4 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance:

- ◆ Where possible, rotate the use of DB-878 Herbicide or other Group 2 and Group 4 herbicides within a growing season or among growing seasons with different herbicide groups that control the same weeds in a field.
- ◆ Use tank mixtures with herbicides from a different group when such use is permitted. To delay resistance, the less resistance-prone partner should control the target weed(s) as effectively as the more resistance-prone partner.

- ◆ Herbicide use should be based on an integrated weed management program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical control methods), cultural (for example, higher crop seeding rates; precision fertilizer application method and timing to favour the crop and not the weeds), biological (weed-competitive crops or varieties) and other chemical control practices.
- ◆ Monitor weed populations after herbicide application for signs of resistance development (for example, only one weed species on the herbicide label not controlled). If resistance is suspected, prevent weed seed production in the affected area if possible by an alternative herbicide from a different group. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- ◆ Have suspected resistant weed seeds tested by a qualified laboratory to confirm resistance and identify alternative herbicide options.
- ◆ Contact your local extension specialist or certified crop advisors for any additional pesticide resistance management and/or integrated weed management recommendations for specific crops and weed biotypes.
- ◆ For further information or to report suspected resistance, contact your local FMC Corporation representative or the FMC Corporation hotline at 1-833-362-7722 for further information.

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